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GeneCard for gene CCR9
GC03P045168

Approved UCL/HGNC/HUGO Human Gene Nomenclature database symbol
CCR9 (chemokine (C-C motif) receptor 9)

**Aliases and Additional
Descriptions**
(According to GDB, HUGO,
and/or SWISS-PROT)

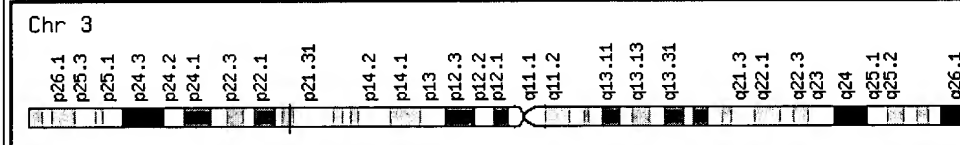
- CMKBR9
- GPR-9-6
- chemokine (C-C motif) receptor 9
- C-C chemokine receptor type 9 (C-C CKR-9) (CC-CKR-9) (CCR-9) (GPR-9-

Chromosomal Location
(According to UDB/GeneLoc
and/or HUGO, and/or
LocusLink,
Genomic Views According to
UCSC and Ensembl)

Chromosome: 3 UDB/GeneLoc gene densities

LocusLink cytogenetic band: 3p21.3 **Ensembl cytogenetic band: 3p21.32**

Gene in genomic location: bands according to Ensembl, locations according to UI



Unified DataBase (GeneLoc) location for GC03P045168: (*about GC identifiers*)

Start: 45,168,841 bp from pter

End: 45,185,511 bp from pter

Size: 16,670 bases

Orientation: plus strand

Unified DataBase (version 2.5) coordinate (from pter): --

Genomic View:
UCSC Golden Path

Proteins
(According to SWISS-PROT
and/or MIPS)

CKR9 HUMAN

Size: 357 amino acids; 40713 Da

Function: Receptor for chemokine SCYA25/TECK. Subsequently transduces a s infection.

Subcellular location: Integral membrane protein.

Tissue specificity: HIGHLY EXPRESSED IN THE THYMUS AND LOW IN LYMI

Similarity: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS.

MIPS Pedant Viewer: 51331

REFSEQ proteins (2 alternative transcripts):

NP_006632.2 NP_112477.1

InterPro Domains and Families:

IPR004069; CC_chemkine9

IPR000276; GPCR_Rhodpsn

Graphical View of Domain Structure for SP Entry P51686

Gene Ontology (GO) terms (tree view):

**Protein
Domains/Families/Ontologies**
(According to InterPro, GO,
and/or BLOCKS)

GO:0006935
GO:0005887
GO:0004872
GO:0016021
GO:0007186
GO:0001584
GO:0007204
GO:0006968
GO:0016493
GO:0004945
GO:0016494

Blocks protein families:

IPB000276 Rhodopsin-like GPCR superfamily
PR01531 C-C chemokine receptor type 9 signature

Sequences
(GenBank/EMBL/DDBJ
Accessions According to
Unigene or GenBank, RefSeq
According to LocusLink,
Assembly According to MIPS
and/or DOTS)

REFSEQ mRNAs (2 alternative transcripts):

NM_006641.2 NM_031200.1

Additional Gene/cDNA sequence:

AF145207.1 AF145439 AF145439.1 AF145440 AF145440.1 AJ132337 AJ1:

MIPS assembly: H43337S1

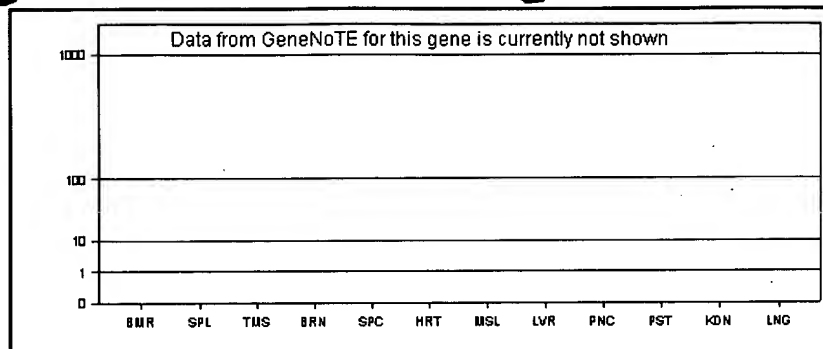
DOTS assembly:
DT.70101854

Unigene Cluster for CCR9: (Build 155 Homo sapiens; Sep 23 2002)
chemokine (C-C motif) receptor 9
Hs.225946 [show with all **ESTs**]

Unigene Representative Sequence: NM_031200

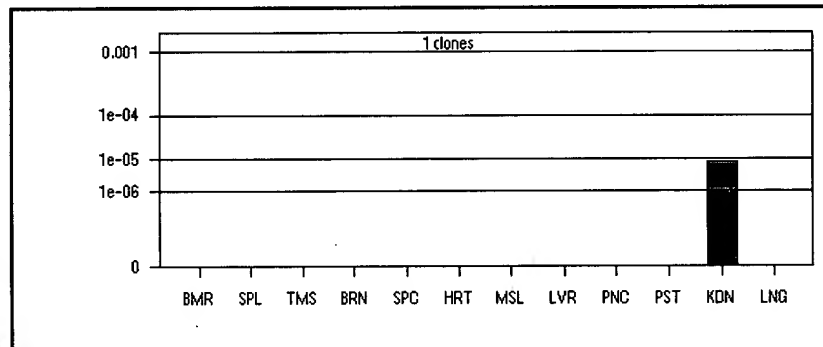
CCR9 expression in normal human tissues based on proprietary W.I.S DNA

Expression in Human Tissues
(According to proprietary W.I.S
DNA array results (GeneNoTE),
UniGene and/or SOURCE)



■ Immu
■ Nervo
□ Muscl
■ Secre
■ Other
□ Min-m

CCR9 expression in normal human tissues based on quantifying ESTs from



Tissue
BMR B
SPL S
TMS T
BRN B
SPC S
HRT H
MSL S
LVR L
PNC P
PST P
KDN K
LNG L

SOURCE GeneReport for Unigene cluster Hs.225946

**Similar Genes in Other
Organisms**

(According to MGD Oct 18 2002
Stony Brook
C.elegans-H.sapiens Alignment
Database and/or euGenes)

Homologues:

	gene	locus	description
mouse (MGD)	Ccr9	9	chemokine (C-C motif) receptor 9
C. elegans (Stony Brook)	C50F7.1	--	description: Caenorhabditis elegans cosmid C50F7.1 sequence

Variants: SWISS-PROT: CKR9_HUMAN

NCBI SNPs: 5 selected, not withdrawn, single nucleotide mutations are shown here

Genomic Data

SNP ID	Contig Accession	Position in Contig	Strand	5' Flanking Sequence*	3' Flanking Sequence
rs1985356	NT_034534.1	1484187	+	aaagtgggtggatta	gagggtca
rs1985463	NT_034534.1	1484382	+	gcactccagcctggg	agcaaga
rs1488371	NT_034534.1	1481835	-	CACCCCTCAAGGGCT	TTCCTCC
rs2236938	NT_034534.1	1482685	-	AGACTGAATCCCAGA	AAGGACA
rs875891	NT_034534.1	1488903	-	CTCCCTGGCTGCTGC	CATGTCT

* Lower case letters indicate repetitive or low-complexity sequence

All NCBI SNPs in CCR9

Disorders & Mutations

SNPs/Variants

(According to the NCBI SNP
Database and to SWISS-PROT)

(in which this Gene is Involved, According to <u>OMIM</u> , <u>SWISS-PROT</u> , <u>Genatlas</u> , <u>GeneClinics</u> , <u>HGMD</u> , <u>BCGD</u> , and/or <u>TGDB</u> .)	--
Medical News (Possibly Related Articles in Doctor's Guide)	--
Research Articles (in <u>PubMed</u>)	<ul style="list-style-type: none">• <u>Cutting edge: identification of the orphan chemokine receptor GPR-9-6 as C</u> <div>Search PubMed for CCR9</div> to find abstracts of research articles cc
CCR9 in Other Genome Wide Resources: (According to <u>GDB</u> , <u>LocusLink</u> , <u>euGenes</u> , <u>Ensembl</u> and/or <u>GeneLynx</u>)	<u>GDB: 9958889</u> <u>LocusLink: 10803</u> <u>euGenes: HUgn10803</u> <u>Ensembl: EN</u>
CCR9 in General Databases, Limited Scope (According to <u>HUGE</u>)	--
CCR9 in Specialized Databases (According to <u>ATLAS</u> , <u>GENATLAS</u> , <u>HORDE</u> , <u>IMGT</u> , <u>MTDB</u> , <u>LEIDEN</u> and/or <u>SWISS-PROT</u>)	<i>name</i> Genatlas biochemistry entry for CCR9: chemokine CC,beta receptor 9,G protein thymus,receptor for the chemokine TECK
Services (According to <u>RZPD</u>)	<u>Search RZPD for clones of CCR9</u> Clone collection at the German Human Geno

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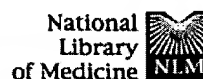
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PubMed	Nucleotide	Protein	Genome	Structure	PopSet	Taxonomy	OMIM	Books
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History has expired due to inactivity.

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PubMed

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Show:	20	▼	Items 1-18 of 18				One page.	

PubMed
Services

- ☐ 1: [Marsal J, Svensson M, Ericsson A, Iranpour AH, Carramolino L, Marquez G, Agace WW.](#) Related Articles, Links

Involvement of CCL25 (TECK) in the generation of the murine small-intestinal CD8alpha alpha+CD3+ intraepithelial lymphocyte compartment.

Eur J Immunol. 2002 Dec;32(12):3488-97.

PMID: 12442331 [PubMed - in process]

- ☐ 2: [Onai N, Kitabatake M, Zhang YY, Ishikawa H, Ishikawa S, Matsushima K.](#) Related Articles, Links

Pivotal role of CCL25 (TECK)-CCR9 in the formation of gut cryptopatches and consequent appearance of intestinal intraepithelial T lymphocytes.

Int Immunol. 2002 Jul;14(7):687-94.

PMID: 12096027 [PubMed - in process]

- ☐ 3: [Youn BS, Yu KY, Oh J, Lee J, Lee TH, Broxmeyer HE.](#) Related Articles, Links

Role of the CC chemokine receptor 9/TECK interaction in apoptosis.

Apoptosis. 2002 Jun;7(3):271-6.

PMID: 11997671 [PubMed - in process]

- ☐ 4: [Uehara S, Song K, Farber JM, Love PE.](#) Related Articles, Links

Characterization of CCR9 expression and CCL25/thymus-expressed chemokine responsiveness during T cell development: CD3(high)CD69+ thymocytes and gammadeltaTCR+ thymocytes preferentially respond to CCL25.

J Immunol. 2002 Jan 1;168(1):134-42.

PMID: 11751956 [PubMed - indexed for MEDLINE]

- ☐ 5: [Miyazaki K, Inoue H, Onai N, Ishihara H, Kanno M.](#) Related Articles, Links

Chemokine-mediated thymopoiesis is regulated by a mammalian Polycomb group gene, mel-18.

Immunol Lett. 2002 Feb 1;80(2):139-43.

PMID: 11750047 [PubMed - indexed for MEDLINE]

- ☐ 6: [Olaussen RW, Farstad IN, Brandtzaeg P, Rugtveit J.](#) Related Articles, Links

Age-related changes in CCR9+ circulating lymphocytes: are CCR9+ naive T cells recent thymic emigrants?

Scand J Immunol. 2001 Nov;54(5):435-9.

PMID: 11696193 [PubMed - indexed for MEDLINE]

Related
Resources

- ☐ **7:** Wurbel MA, Malissen M, Guy-Grand D, Meffre E, Nussenzweig MC, Richelme M, Carrier A, Malissen B. Related Articles, Links
Mice lacking the CCR9 CC-chemokine receptor show a mild impairment of early T- and B-cell development and a reduction in T-cell receptor gamma delta(+) gut intraepithelial lymphocytes.
Blood. 2001 Nov 1;98(9):2626-32.
PMID: 11675330 [PubMed - indexed for MEDLINE]
- ☐ **8:** Youn BS, Kim YJ, Mantel C, Yu KY, Broxmeyer HE. Related Articles, Links
Blocking of c-FLIP(L)--independent cycloheximide-induced apoptosis or Fas-mediated apoptosis by the CC chemokine receptor 9/TECK interaction.
Blood. 2001 Aug 15;98(4):925-33.
PMID: 11493434 [PubMed - indexed for MEDLINE]
- ☐ **9:** Papadakis KA, Prehn J, Moreno ST, Cheng L, Kouroumalis EA, Deem R, Breaverman T, Ponath PD, Andrew DP, Green PH, Hodge MR, Binder SW, Targan SR. Related Articles, Links
CCR9-positive lymphocytes and thymus-expressed chemokine distinguish small bowel from colonic Crohn's disease.
Gastroenterology. 2001 Aug;121(2):246-54.
PMID: 11487533 [PubMed - indexed for MEDLINE]
- ☐ **10:** Carramolino L, Zaballos A, Kremer L, Villares R, Martin P, Ardavin C, Martinez-A C, Marquez G. Related Articles, Links
Expression of CCR9 beta-chemokine receptor is modulated in thymocyte differentiation and is selectively maintained in CD8(+) T cells from secondary lymphoid organs.
Blood. 2001 Feb 15;97(4):850-7.
PMID: 11159507 [PubMed - indexed for MEDLINE]
- ☐ **11:** Papadakis KA, Prehn J, Nelson V, Cheng L, Binder SW, Ponath PD, Andrew DP, Targan SR. Related Articles, Links
The role of thymus-expressed chemokine and its receptor CCR9 on lymphocytes in the regional specialization of the mucosal immune system.
J Immunol. 2000 Nov 1;165(9):5069-76.
PMID: 11046037 [PubMed - indexed for MEDLINE]
- ☐ **12:** Kunkel EJ, Campbell JJ, Haraldsen G, Pan J, Boisvert J, Roberts AI, Ebert EC, Vierra MA, Goodman SB, Genovese MC, Wardlaw AJ, Greenberg HB, Parker CM, Butcher EC, Andrew DP, Agace WW. Related Articles, Links
Lymphocyte CC chemokine receptor 9 and epithelial thymus-expressed chemokine (TECK) expression distinguish the small intestinal immune compartment: Epithelial expression of tissue-specific chemokines as an organizing principle in regional immunity.
J Exp Med. 2000 Sep 4;192(5):761-8.
PMID: 10974041 [PubMed - indexed for MEDLINE]
- ☐ **13:** Gosling J, Dairaghi DJ, Wang Y, Hanley M, Talbot D, Miao Z, Schall TJ. Related Articles, Links
Cutting edge: identification of a novel chemokine receptor that binds dendritic cell- and T cell-active chemokines including ELC, SLC, and TECK.
J Immunol. 2000 Mar 15;164(6):2851-6.
PMID: 10706668 [PubMed - indexed for MEDLINE]

- ☐ **14:** [Yu CR, Peden KW, Zaitseva MB, Golding H, Farber JM.](#) [Related Articles, Links](#)
CCR9A and CCR9B: two receptors for the chemokine CCL25/TECK/Ck beta-15 that differ in their sensitivities to ligand.
J Immunol. 2000 Feb 1;164(3):1293-305.
PMID: 10640743 [PubMed - indexed for MEDLINE]
- ☐ **15:** [Norment AM, Bogatzki LY, Gantner BN, Bevan MJ.](#) [Related Articles, Links](#)
Murine CCR9, a chemokine receptor for thymus-expressed chemokine that is up-regulated following pre-TCR signaling.
J Immunol. 2000 Jan 15;164(2):639-48.
PMID: 10623805 [PubMed - indexed for MEDLINE]
- ☐ **16:** [Wurbel MA, Philippe JM, Nguyen C, Victorero G, Freeman T, Wooding P, Miazek A, Mattei MG, Malissen M, Jordan BR, Malissen B, Carrier A, Naquet P.](#) [Related Articles, Links](#)
The chemokine TECK is expressed by thymic and intestinal epithelial cells and attracts double- and single-positive thymocytes expressing the TECK receptor CCR9.
Eur J Immunol. 2000 Jan;30(1):262-71.
PMID: 10602049 [PubMed - indexed for MEDLINE]
- ☐ **17:** [Youn BS, Kim CH, Smith FO, Broxmeyer HE.](#) [Related Articles, Links](#)
TECK, an efficacious chemoattractant for human thymocytes, uses GPR-9-6/CCR9 as a specific receptor.
Blood. 1999 Oct 1;94(7):2533-6.
PMID: 10498628 [PubMed - indexed for MEDLINE]
- ☐ **18:** [Zaballos A, Gutierrez J, Varona R, Ardavin C, Marquez G.](#) [Related Articles, Links](#)
Cutting edge: identification of the orphan chemokine receptor GPR-9-6 as CCR9, the receptor for the chemokine TECK.
J Immunol. 1999 May 15;162(10):5671-5.
PMID: 10229797 [PubMed - indexed for MEDLINE]

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GeneCard for gene CCL25
GC19P008076

Approved [UCL/HGNC/HUGO](#) Human Gene Nomenclature database symbol
CCL25 (chemokine (C-C motif) ligand 25)

Aliases and Additional Descriptions

(According to [GDB](#), [HUGO](#), and/or [SWISS-PROT](#))

- Ckb15
- SCYA25
- **TECK**
- chemokine (C-C motif) ligand 25
- small inducible cytokine subfamily A (Cys-Cys), member 25
- Small inducible cytokine A25 precursor (CCL25) (Chemokine **TECK**) (Thym

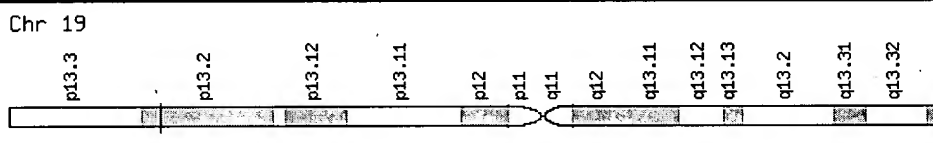
Chromosomal Location

(According to [UDB/GeneLoc](#) and/or [HUGO](#), and/or [LocusLink](#),
Genomic Views According to [UCSC](#) and [Ensembl](#))

Chromosome: 19 [UDB/GeneLoc](#) gene densities

LocusLink cytogenetic band: **19p13.2** **Ensembl** cytogenetic band: **19p13.2**

Gene in genomic location: bands according to Ensembl, locations according to U



Unified DataBase (GeneLoc) location for GC19P008076: (about GC identifiers)

Start: 8,076,699 bp from pter

End: 8,086,295 bp from pter

Size: 9,596 bases

Orientation: plus strand

Unified DataBase (version 2.5) coordinate (from pter): --

Genomic View:
[UCSC Golden Path](#)

Proteins

(According to [SWISS-PROT](#) and/or [MIPS](#))

SY25_HUMAN

Size: 150 amino acids; 16639 Da

Function: POTENTIALLY INVOLVED IN T CELL DEVELOPMENT. RECOMBINANT AND DENDRITIC CELLS BUT IS INACTIVE ON PERIPHERAL BLOOD LYMPHOCYTES.

Subcellular location: Secreted.

Alternative products: 2 isoforms; 1 (shown here) and 2/TECKvar; are produced

Tissue specificity: SPECIFICALLY EXPRESSED BY THYMIC DENDRITIC CELLS

Similarity: BELONGS TO THE INTERCRINE BETA FAMILY (SMALL CYTOKINE)

MIPS Pedant Viewer: [11668](#)

REFSEQ proteins (2 alternative transcripts):

[NP_005615.2](#) [NP_683686.1](#)

InterPro Domains and Families:

[IPR000827](#); CC chemokine smf
[IPR001811](#); Chemokine IL8

Graphical View of Domain Structure for SP Entry O15444

**Protein
Domains/Families/Ontologies**
(According to InterPro, GO,
and/or BLOCKS)

Gene Ontology (GO) terms (tree view):

GO:0006935
GO:0005576
GO:0005625
GO:0006954
GO:0006955
GO:0007186
GO:0005180
GO:0008009

Blocks protein family: IPB000827 Small cytokines (intercrine/chemokine)

Sequences
(GenBank/EMBL/DDBJ
Accessions According to
Unigene or GenBank, RefSeq
According to LocusLink,
Assembly According to MIPS
and/or DOTS)

REFSEQ mRNAs (2 alternative transcripts):

NM_005624.2 NM_148888.1

Additional Gene/cDNA sequence:

AB046579 AB046579.1 AI313430.1 AI961745.1 U86358 U86358.1

MIPS assembly:H8396S1

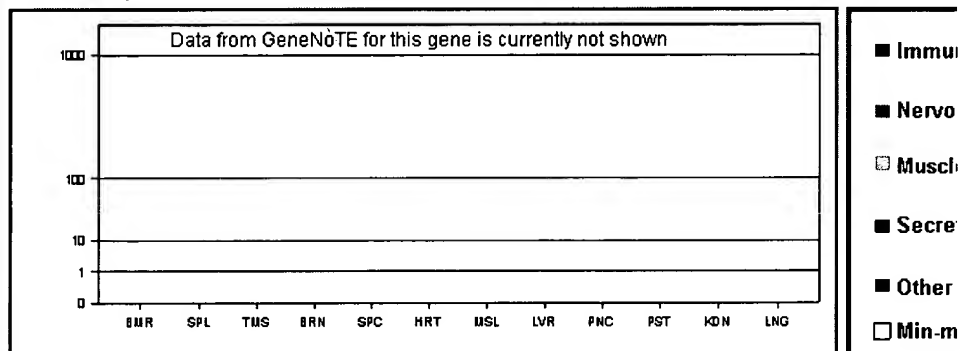
DOTS assembly:

DT.454999

Unigene Cluster for CCL25: (Build 155 Homo sapiens; Sep 23 2002)
chemokine (C-C motif) ligand 25

Hs.50404 [show with all **ESTs**]

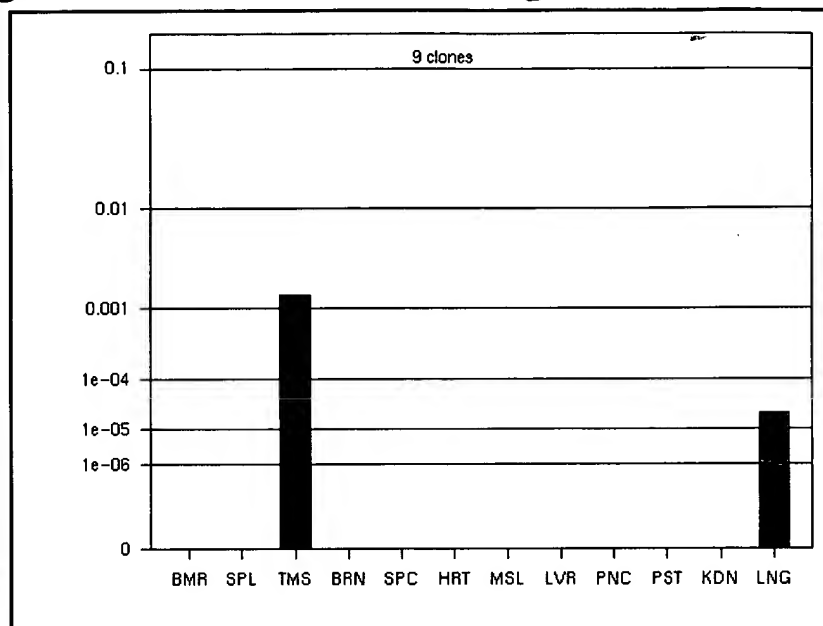
Unigene Representative Sequence: NM_005624

CCL25 expression in normal human tissues based on proprietary W.I.S DNA

CCL25 expression in normal human tissues based on quantifying ESTs for

Expression in Human Tissues

(According to proprietary W.I.S DNA array results (GeneNoTE), UniGene and/or SOURCE)



Tissue	
BMR	B
SPL	S
TMS	T
BRN	B
SPC	S
HRT	H
MSL	M
LVR	L
PNC	P
PST	P
KDN	K
LNG	L

SOURCE GeneReport for Unigene cluster Hs.50404

Similar Genes in Other Organisms

(According to MGD Oct 28 2002, Stony Brook C.elegans-H.sapiens Alignment Database and/or euGenes)

Homologues:

	gene	locus	description	%similarity to huma
mouse (MGD)	Ccl25	8 (1.00 cM)	chemokine (C-C motif) ligand 25	--

Variants: SWISS-PROT: SY25 HUMAN

NCBI SNPs: 10/14 selected, not withdrawn, single nucleotide mutations are show
Click here to see all of them

Genomic Data

SNP ID	Contig Accession	Position in Contig	Strand	5' Flanking Sequence*	3' Flanki
rs2287936	NT_011145.12	1693091	+	TTTGTCCGCTCCGGG	ACCAGC
rs3136651	NT_011145.12	1684771	+	AACTGGGTCCTACA	CCTCTG
rs3136652	NT_011145.12	1684816	+	GGGTCCCTGGCTGGG	GGCAGA
rs3136653	NT_011145.12	1684978	+	CCCAGCCCAGCCCTT	GATCCT
rs2303166	NT_011145.12	1688687	+	GAGAGGTGGTTGTGC	GTCAGT
rs2303164	NT_011145.12	1688497	+	CTCCAAGTTATCATC	TCCAAG
rs918638	NT_011145.12	1688044	-	caaggctgcagttag	tgtga
rs2336092	NT_011145.12	1692476	+	ccctgtctctaaaat	caaaa
rs3826741	NT_011145.12	1684710	+	TTGAGGATTTTCAGTC	CCAAAG
rs2303167	NT_011145.12	1688721	+	CAGGGGAGGGTCCTC	GTGGCT

* Lower case letters indicate repetitive or low-complexity sequence

All NCBI SNPs in CCL25

SNPs/Variants

(According to the NCBI SNP Database and to SWISS-PROT)

Disorders & Mutations

(in which this Gene is Involved, According to OMIM, SWISS-PROT, Genatlas, GeneClinics, HGMD, BCGD,

and/or <u>TGDB</u> .)	
Medical News (Possibly Related Articles in <u>Doctor's Guide</u>)	--
Research Articles (in <u>PubMed</u>)	<ul style="list-style-type: none">• TECK: a novel CC chemokine specifically expressed by thymic dendritic cel• <u>Cutting edge</u>: identification of the orphan chemokine receptor GPR-9-6 as C• <u>The human CC chemokine TECK (SCYA25) maps to chromosome 19p13.2</u> <div>Search PubMed for CCL25</div> to find abstracts of research articles c
CCL25 in Other Genome Wide Resources: (According to <u>GDB</u> , <u>LocusLink</u> , <u>euGenes</u> , <u>Ensembl</u> and/or <u>GeneLynx</u>)	<u>GDB</u> : 9574254 <u>LocusLink</u> : 6370 <u>euGenes</u> : HUgn6370 <u>Ensembl</u> : ENSC
CCL25 in General Databases, Limited Scope (According to <u>HUGE</u>)	--
CCL25 in Specialized Databases (According to <u>ATLAS</u> , <u>GENATLAS</u> , <u>HORDE</u> , <u>IMGT</u> , <u>MTDB</u> , <u>LEIDEN</u> and/or <u>SWISS-PROT</u>)	--
Services (According to <u>RZPD</u>)	--
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- search millions of **Web pages** with **Excite** to find other web sites relatedGeneCards Homepage - How to Search or Cite this Database - Last **Update**: 31 Oct 2002

Search GeneCards for

Go

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Developed at the Crown Human Genome Center & Weizmann Institute of Science

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(FILE 'HOME' ENTERED AT 09:31:53 ON 02 DEC 2002)

FILE 'MEDLINE, CAPLUS, EMBASE, BIOSIS' ENTERED AT 09:32:12 ON 02 DEC 2002

L1 165 S CCR9 OR CCR9A OR CCR9B OR GPR-9-6 OR GPR9-6 OR GRP96 OR
CMKBR
L2 151 S L1 AND CHEMOKINE
L3 71 DUP REM L2 (80 DUPLICATES REMOVED)
L4 9 S L3 AND PY<2000
L5 182 S TECK AND CHEMOKINE
L6 43 S L5 AND PY<2000
L7 19 DUP REM L6 (24 DUPLICATES REMOVED)

ACCESSION NUMBER: 1998285773 MEDLINE
 DOCUMENT NUMBER: 98285773 PubMed ID: 9621075
 TITLE: The orphan seven-transmembrane receptor apj supports the entry of primary T-cell-line-tropic and dualtropic human immunodeficiency virus type 1.
 AUTHOR: Choe H; Farzan M; Konkell M; Martin K; Sun Y; Marcon L; Cayabyab M; Berman M; Dorf M E; Gerard N; Gerard C; Sodroski J
 CORPORATE SOURCE: Division of Human Retrovirology, Dana-Farber Cancer Institute, Boston, Massachusetts 02115, USA.
 CONTRACT NUMBER: AI 24755 (NIAID)
 AI 28691 (NIAID)
 AI 41851 (NIAID)
 +
 SOURCE: JOURNAL OF VIROLOGY, (1998 Jul) 72 (7) 6113-8.
 Journal code: 0113724. ISSN: 0022-538X.
 PUB. COUNTRY: United States
 DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
 LANGUAGE: English
 FILE SEGMENT: Priority Journals; AIDS
 ENTRY MONTH: 199807
 ENTRY DATE: Entered STN: 19980713
 Last Updated on STN: 19980713
 Entered Medline: 19980701
 AB Human immunodeficiency virus type 1 (HIV-1) enters target cells by sequential binding to CD4 and specific seven-transmembrane-segment (7TMS) coreceptors. Viruses use the **chemokine** receptor CCR5 as a coreceptor in the early, asymptomatic stages of HIV-1 infection but can adapt to the use of other receptors such as CXCR4 and CCR3 as the infection proceeds. Here we identify one such coreceptor, Apj, which supported the efficient entry of several primary T-cell-line tropic (T-tropic) and dualtropic HIV-1 isolates and the simian immunodeficiency virus SIVmac316. Another 7TMS protein, **CCR9**, supported the less efficient entry of one primary T-tropic isolate. mRNAs for both receptors were present in phytohemagglutinin- and interleukin-2-activated peripheral blood mononuclear cells. Apj and **CCR9** share with other coreceptors for HIV-1 and SIV an N-terminal region rich in aromatic and acidic residues. These results highlight properties common to 7TMS proteins that can function as HIV-1 coreceptors, and they may contribute to an understanding of viral evolution in infected individuals.

This "06" - briefly called CCR9 but a
 diff. protein vs GPR5-6.

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<u>L2</u>	TECK or CKb15 or (Ck?sub.b 15) or (Ck?sub.beta 15) or SCYA25 or CCL25	3673904	<u>L2</u>
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